- POWER PCB
- MAIN PCB
- DRIVER BOARD
- LVDS CABLE
- SPEAKER
- T-CON PCB (under shield)
- SPEAKER

HELP : 1-888-751-4086; 1-866-894-0637 (FE)
http://gspn3.samsungcsportal.com

PLUS ONE
http://my.plus1solutions.net/clientPortals/samsung
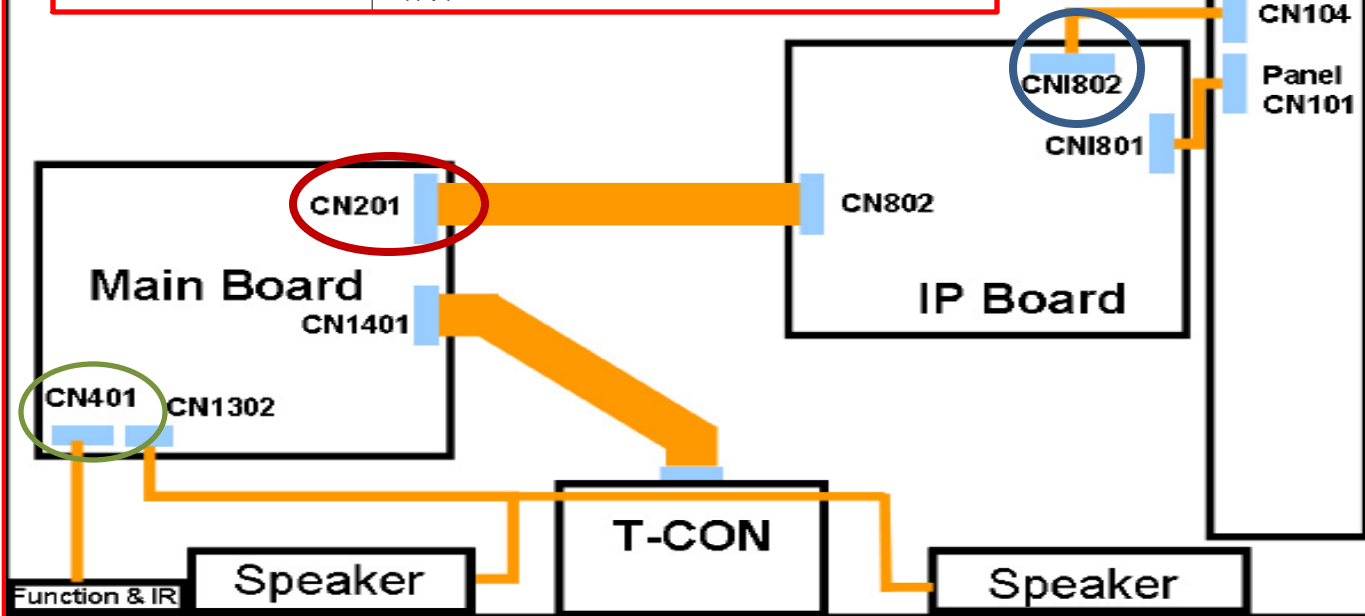
HOT TIPS
Power On Problems: (see **page 2**)
Video Problems: (see **pages 3,4**)
TIP If the unit has a vertical yellow colored line that is one pixel wide in the video, verify that it also affects the OSD. If so, replace the panel. If it does not affect the OSD and is in multiple sources, replace the main board.

SERVICE BULLETINS

2 011 LCD Option Byte Table
ASC20110624001.pdf

FIRMWARE
Version: 1002.2
To fix USB Power Overload error message issue.
Be sure to check for latest SW updates.

PARTS (Board Assemblies)
Be sure to check for latest parts updates.

Model Code	Side Label	Part No. Panel Module	Inverter	T-Con	Main B'd	Power
LN40D630M3FXZA	SQ01	BN07-01032A	BN81-06514A	BN81-06512A	BN96-19438A	BN44-00464A
	SN02	BN07-01037A	BN81-06720A	BN81-06719A	BN96-19774A	BN44-00464A

1

Connector	Function
CN201 → CN802	Supply main power and dimming signal from IP board to Main Board.
CN1401 → CN505	The LVDS signal transfered from Main Board to Panel .
CNI802 → Panel CN104	Feedback signal from driver.
CNI801 → Panel CN101	Supply power from IP board to Driver Board.

Panel CN104
Panel CN101
CNI802
CNI801
CN201
CN802
Main Board
CN1401
IP Board
CN401   CN1302
Function & IR
Speaker
T-CON
Speaker

CN201 (To Power board)			
1	B12 V_PW	10	GND
2	SW_P	11	GND
3	B12 V_PW	12	H_OUT
4	A5 V_PW	13	B13 V_PW
5	B5 V_PW	14	PWM_DIMMING_OUT
6	B5 V_PW	15	B13 V_PW
7	B5 V_PW	16	B5 V_PW
8	GND	17	B13 V_PW
9	GND	18	IP_DET

CNI 802			
1	E-PWM	8	GND
2	N.C	9	GND
3	BLU_ON	10	B24 V
4	INV_Err	11	B24 V
5	GND	12	B24 V
6	GND	13	B24 V
7	GND	14	B24 V

CN401 (To Function / IR)			
1	IR	6	KEY_INPUT1
2	GND	7	KEY_INPUT2
3	A3.3 V_PW	8	LED_STB
4	MSCL_A5 V	9	LED_CNTR
5	MSDA_A5 V	10	A3.3 V_PW

Power On Sequence (approximate Voltages)
)
1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201- 2(0 – 3.5V)
3. **Low Voltage Supplies On** CN201-1, 3 -7, 13, 15, 16, 17 (Volts Listed on CN201)
4. **Back Light On** CN201- (0-5V delayed)
5. **Back Light Confirm**   CNI802
6. **Dimming Signal** CN201-14

To Force Backlight On without Main Board :
1. Remove Power Cord
2. Remove **CN 802**
3. Plug Power Cord In.
4. Backlight should be on immediately.

TROUBLESHOOTING VIDEO PROBLEMS

T-Con Troubleshooting

1.   **Verify Video Operation**
     a. Boot Logo with power on
     b. Customer Picture Test in user men**u**
     c. **"Display"** (If display and Boot Logo &
     Customer Picture Test is OK the source or
     cables are first suspected . Then check for a
     defective input on the Main Board.)
     d. Substitute with known good Source
        (**external DVD or Signal Generator** to check
     inputs on Main Board)

2. Using Test Patterns in Service Mode
     - ENTER SERVICE MODE –

1.   Select an active source signal since
     Test Pattern may rely on signal source to
     appear or select TV Source mode.

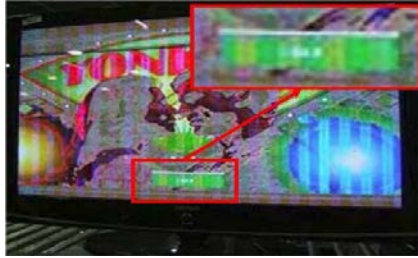| Customer Remote	Service Remote
2. Power Standby	**2.** Power On
3. Mute, 182, Power On	**3.** Info, Factory

4.   Select SVC
5.   Select Test Patterns
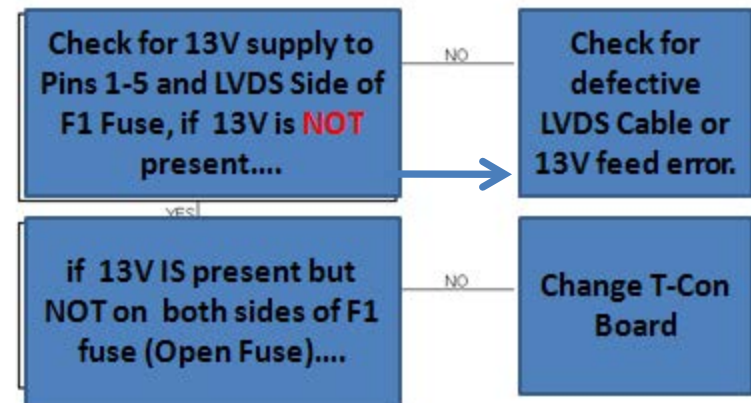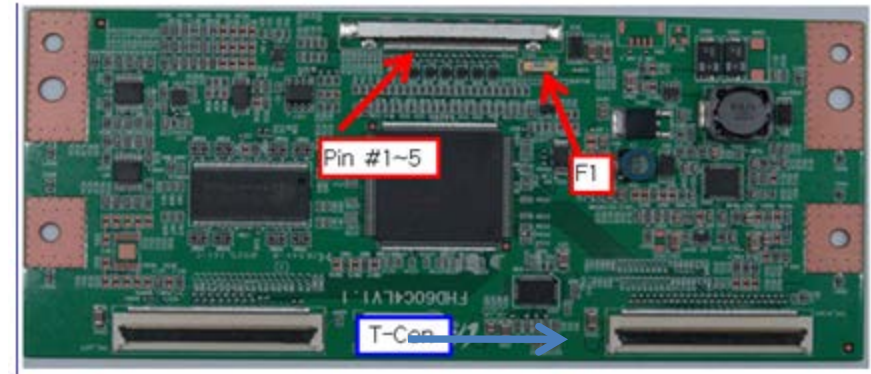
ON SCREEN FAILURE EXAMPLES:

If Picture & Display errors Defective Main Board, LVDS, or T-CON

Green lines or a green screen defective main board , LVDS , or T-CON.
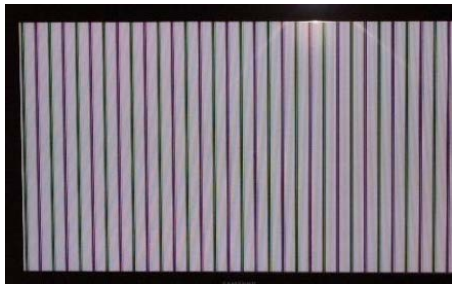

Pixelization can be caused by the main board but is more commonly a source error

Vertical or Horizontal Lines :Defective Panel likely but also T-CON, LVDS, or Main Board. Use Test Patterns in Factory Service Mode to determine error)

ALIGNMENTS:

1. Check/Set Option Bytes: in Service Mode

Model Code	Front Color	Type	Model	Tuner	Region		
LN40D630M 3FXZA	T-C-BLK	40A1AFOC for SQ01 40D1AFOC for SN02	LD630	SEMCO	USA		

2. Check/Perform latest Firmware Upgrade for all repairs.

3. Perform reset in Service Mode & Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all Settings if Main Board or Panel is replaced.